## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10886

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : D01D 5/12 US CL : 246/441					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELI	OS SEARCHED				
Minimum dod U.S.: 24	cumentation searched (classification system followed be 6/441,452,465; 425/174.8E,174.8R; 57/402	oy classification symbols)			
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched		
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, search	n terms used)		
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.		
X	US 6,110,590 A (ZARKOOB et al) 29 August 2000	(29.08.2000), Figure 1.	1-10, 12-17, 28-31		
Y		·	18-26		
Χ.	US 2,338,570 A (CHILDS) 30 October 1941 (30.10.	1941), Figure 1.	1-17, 27-31		
Y	•		18-26		
x	US 6,616,435 B2 (LEE et al) 09 September 2003 (09	0.09.2003), Figure 1A.	1-17, 27-31		
 Y	·	•	18-26		
X 	US 4,878,908 A (MARTIN et al) 07 November 1989	(07.11.1989), Figure 1.	1, 4-10, 12-15, 17, 28- 31		
Y			18-26		
Y	US 6,267,987 B1 (PARK et al) 31 July 2001 (31.07.)	2001), col 6, lines 35-55.	18-23 and 25-26		
		, <u> </u>	·		
Further documents are listed in the continuation of Box C.  See patent family annex.					
* Special categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"F" earlier application or patent published on or after the international filing date consi		considered novel or cannot be considered	aimed invention cannot be ed to involve an inventive step		
when the document is taken alone  "L" document which may throw doubts on priority claim(s) or which is cited to  establish the publication date of another citation or other special reason (as "Y" document of particular relevance; the claimed invention cannot b		aimed invention cannot be			
specified)		considered to involve an inventive step with one or more other such documents, obvious to a person skilled in the art	such combination being		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
	Date of the actual completion of the international search  Date of mailing of the international search report				
	2005 (27.09.2005)	05 DEC 2005			
Name and mailing address of the ISA/US  Authorized officer					
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Category +	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
. Y	US 6,308,434 B1 (CHICKERING, III et al) 30 October 2001 (30.10.2001), col 8, line 40 - col	18-23 and 25-26
·	9, line 50.	18-26
Y	US 6,471,993 B1 (SHASTRI et al) 29 October 2002 (29.10.2002), col 3, lines 40-55.	
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